

unit, f_3 is the focal length of the third unit, v_{3n} is the Abbe number of the material for the negative lens of the third unit, and N_{3n} is the refractive index.

IN THE CLAIMS:

Please replace claims 1, 9, 11, and 16 with the following:

1. (Amended) A zoom lens comprising, in order from an object side to an image side:
a first lens unit of a negative optical power, said first lens unit being a lens unit disposed at a position closest to the object side in the zoom lens;

a second lens unit of a positive optical power, said second lens unit being a lens unit disposed at a position following the first lens unit in order from the object side; and

a third lens unit of a positive optical power, said third lens unit being a lens unit disposed at a position following the second lens unit in order from the object side, said third lens unit having a cemented lens formed by cementing a positive lens element to a negative lens element and moving along an optical axis for zooming,

wherein a space between said first and second lens units decreases, and a space between said second lens unit and said third lens unit increases in zooming from a wide angle end to a telephoto end, and

letting NL_i be the number of lens elements constituting an i th lens unit, a condition defined by

$$NL_3 < NL_2 \leq NL_1$$

is satisfied.

9. (Amended) A zoom lens comprising, in order from an object side to an image side:
a first lens unit of a negative optical power;
a second lens unit of a positive optical power; and
a third lens unit of a positive optical power, said third lens unit having a cemented lens formed by cementing a positive lens element to a negative lens element and moving along an optical axis for zooming,

wherein a space between said first and second lens units decreases, and a space between said second lens unit and said third lens unit increases in zooming from a wide angle end to a telephoto end, and

letting NL_i be the number of lens elements constituting an *i*th lens unit, a condition defined by

$$NL3 < NL2 \leq NL1$$

is satisfied; and

wherein said third lens unit moves along a convex locus to the image side in zooming from the wide angle end to the telephoto end.

11. (Amended) A zoom lens according to claim 1, wherein letting f_{3n} be a focal length of the negative lens element of the cemented lens of said third lens unit, f₃ be a focal length of said third lens unit, v_{3n} be an Abbe number of the negative lens element of the cemented lens of said third lens unit, and N_{3n} be a refractive index of the negative lens element of the cemented lens of said third lens unit, conditional expressions,

$$0.8 < |f_3n/f_3| < 1.7$$

$$v_3n < 40$$

$$1.7 < N_3n$$

are satisfied.

16. (Amended) A zoom according to claim 1, wherein
said second lens unit has, in order from the object side to the image side a cemented
lens formed by cementing a positive lens element to a negative lens element and a positive lens
element in a biconvex shape surfaces, and

letting Ra be a radius of curvature of a lens surface of the cemented lens of said second
lens unit which is located nearest to the object side, Rb be a radius of curvature of a lens
surface of the cemented lens of said second lens unit which is located nearest to an image side,
Rc be a radius of curvature of a lens surface of said positive lens element in a biconvex shape
which is located on the object side, Rd be a radius of curvature of a lens surface of said positive
lens element in the biconvex shape which is located on the image side, d be a thickness of the
cemented lens of said second lens unit on the optical axis, fw be a focal length of an overall
system at a wide angel end, f3n be a focal length of the negative lens element of the cemented
lens of said third lens unit, f3 be a focal length of said third lens unit, v3n be an Abbe number
of the negative lens element of the cemented lens of said third lens unit, and N3n be a refractive
index, conditional expressions,

$$0.7 < Rb/Ra < 1.2$$

$$-0.6 < (Rd + Rc)/(Rd - Rc) < 0.6$$

$0.3 < d/fw < 0.5$

$0.8 < |f3n/f3| < 1.7$

$v3n < 40$

$1.7 < N3n$

are satisfied.--.

Please add new claims 21-25 as follows:

21. (New) A zoom lens comprising, in order from an object side to an image side:

a first lens unit of a negative optical power, said first lens unit being a lens unit disposed at a position closest to the object side in the zoom lens;
a second lens unit of a positive optical power, said second lens unit being a lens unit disposed at a position following the first lens unit in order from the object side, said second lens unit having a cemented lens; and

a third lens unit of a positive optical power, said third lens unit being a lens unit in order from the object side, said third lens unit moving along an optical axis for zooming,

wherein a space between said first and second lens unit decreases, and a space between said second lens unit and said third lens unit increases in zooming from a wide angle end to a telephoto end, and

letting NLi be the number of lens elements constituting an i th lens unit, a conditional expressions,

NL3 < NL2 \leq NL1

NL2 = 3

are satisfied.

22. (New) A zoom lens comprising, in order from an object side to an image side:
a first lens unit of a negative optical power, said first lens unit being a lens unit disposed at a position closest to the object side in the zoom lens;
a second lens unit of a positive optical power; said second lens unit being a lens unit disposed at a position following the first lens unit in order from the object side, said second lens unit having a cemented lens formed by cementing a positive lens element to a negative lens element, a thickness of the positive lens element constituting the cemented lens ~~being~~ ^{being} greater than a thickness of the negative lens element; and
a third lens unit of a positive optical power, said third lens unit being a lens unit disposed at a position following the second lens unit in order from the object side, said third lens unit moving along an optical axis for zooming,
wherein a space between said first and second lens unit decreases, and a space between said second lens unit and said third lens unit increases in zooming from a wide angle end to a telephoto end, and
letting NL_i be the number of lens elements constituting an ith lens unit, a condition defined by

NL3 < NL2 \leq NL1

is satisfied.

23. (New) An image taking apparatus comprising:
a photoelectric conversion element; and
an image taking lens for forming an image of an object on a photosensitive surface of
the photoelectric conversion element, said image taking lens comprising said zoom lens defined
in claim 21.

24. (New) An image taking apparatus comprising:
a photoelectric conversion element; and
an image taking lens for forming an image of an object on a photosensitive surface of
the photoelectric conversion element, said image taking lens comprising said zoom lens defined
in claim 22.

25. (New) An image taking apparatus comprising:
a photoelectric conversion element; and
an image taking lens for forming an image of an object on a photosensitive surface of
the photoelectric conversion element, said image taking lens comprising said zoom lens defined
in claim 24.